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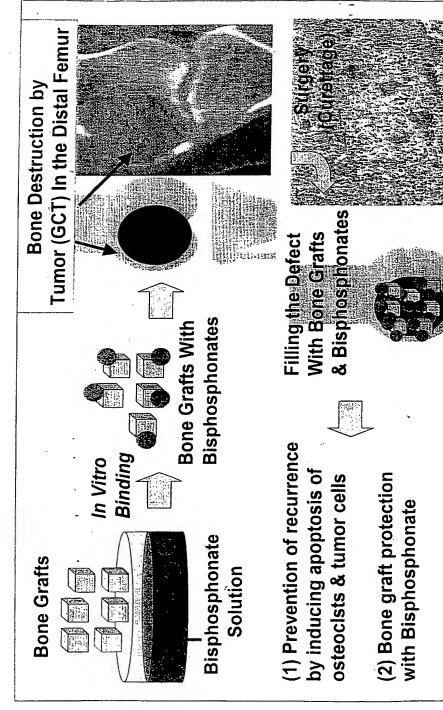
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Bisphosphonate solution. Bone tumors induce osteoclast (tumor giant cells) formation. Figure 1. A schematic diagram for therapeutic rationale using bone grafts coated with Osteoclasts destroy bone. Bisphosphonate-Bone Graft composite (🖏 ) can induce apoptosis in giant cell tumors (GCT) & other tumor cells, prevent recurrence and protect bone graft resorption.

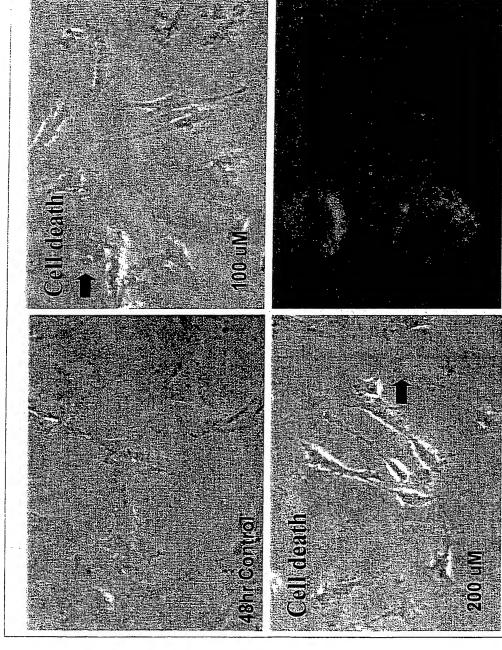
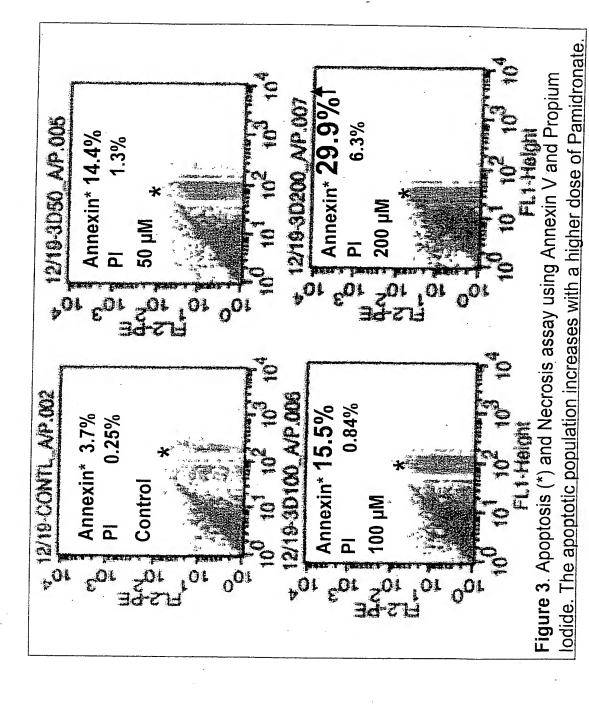


Figure 2. Pamidronate induces apoptosis of tumor cells of giant cells in a dose dependent manner. The control picture shows plumpy, polyhedral cytoplasm. Addition of 100 & 200 uM of Pamidronate induces cell death. Annexin V staining indicates apoptosis of tumor cells.



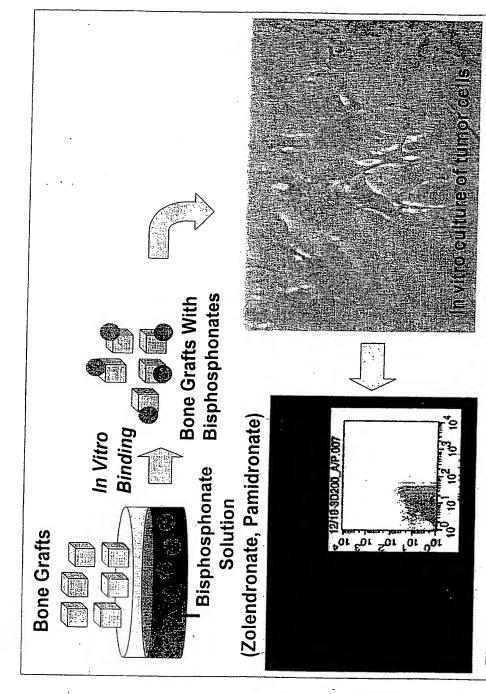


Figure 4. The effect of Bisphosphonate-Bone Graft Composite on the Giant Cell Tumor and Unicameral Bone Cyst in vitro